

TABLE 31

Federal obligations for applied research, by agency and performer: FY 2021

(Dollars in thousands)

Agency	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
All agencies	43,750,114	10,565,461	4,723,897	7,004,281	15,586,028	5,260,155	354,413	255,879
Departments								
Department of Agriculture	1,361,790	746,155	0	13,236	557,830	33,773	7,882	2,914
Agricultural Marketing Service	6,663	3,629	0	*	2,509	212	250	*
Agricultural Research Service	604,161	520,137	0	0	76,024	5,376	89	2,536
Economic Research Service	85,476	74,920	0	*	8,247	2,263	0	0
Forest Service	154,223	133,608	0	298	10,745	3,864	5,352	355
National Agricultural Statistics Service	5,151	4,600	0	0	223	328	0	0
National Institute of Food and Agriculture	505,111	9,262	0	12,851	459,077	21,731	2,190	0
Natural Resources Conservation Service	1,004	0	0	0	1,004	0	0	0
Department of Commerce	1,228,287	893,197	19,924	50,927	243,621	17,508	2,347	763
Census Bureau	55,936	55,936	0	0	0	0	0	0
National Institute of Standards and Technology	506,747	416,196	19,914	35,007	30,060	4,801	*	759
National Oceanic and Atmospheric Administration	658,725	414,185	*	15,920	213,561	12,707	2,338	*
National Telecommunications and Information Administration	6,879	6,879	0	0	0	0	0	0
Department of Defense	6,900,567	1,996,015	1,042,015	2,487,345	1,026,346	311,597	2,290	34,957
Defense Advanced Research Projects Agency	1,335,666	79,804	47,431	786,352	300,511	103,798	300	17,470
Defense Health Agency	114,779	8,821	2,618	12,147	39,864	49,635	0	1,694
Department of the Air Force	1,683,718	592,873	84,221	796,542	164,191	41,847	1,670	2,373
Department of the Army	1,372,202	717,019	19,773	418,700	180,327	32,923	0	3,460
Department of the Navy	1,023,460	364,561	18,387	267,969	306,290	56,099	320	9,835
Other defense agencies	1,370,742	232,937	869,586	205,636	35,164	27,295	0	124
Department of Education	232,600	0	0	16,200	116,191	74,781	25,427	0
Department of Energy	5,276,862	656,063	3,098,366	877,585	495,272	123,701	24,350	1,525
Advanced Research Projects Agency—Energy	157,363	530	17,671	81,691	53,383	4,088	0	0
Electricity Delivery and Energy Reliability	49,592	1,136	35,686	5,748	3,402	3,466	154	0
Energy Efficiency and Renewable Energy	1,394,973	0	620,946	446,084	258,811	44,935	24,196	0
Environmental Management	9,902	*	8,252	0	1,650	0	0	0
Fossil Energy	689,372	421,796	66,775	0	134,668	65,334	0	800
National Nuclear Security Administration	2,485,060	231,172	2,082,337	170,011	1,541	0	0	0
Defense Programs	2,328,172	230,912	1,934,938	161,182	1,141	0	0	0

TABLE 31

Federal obligations for applied research, by agency and performer: FY 2021

(Dollars in thousands)

Agency	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
Office of Defense Nuclear Nonproliferation	156,888	260	147,399	8,829	400	0	0	0
Nuclear Energy	346,454	1,430	266,699	29,905	41,818	5,878	0	725
Office of Science	144,146	0	0	144,146	0	0	0	0
Department of Health and Human Services	21,209,856	3,632,700	350,176	1,522,253	12,017,207	3,430,571	90,647	166,303
Administration for Children and Families	4,590	365	0	0	1,800	2,425	0	0
Administration for Community Living	106,908	0	0	4,810	80,767	20,832	500	0
Agency for Healthcare Research and Quality	308,145	46,928	0	130,303	100,709	30,110	95	0
Agency for Toxic Substances and Disease Registry	10,935	0	0	0	6,686	2,500	1,250	500
Centers for Disease Control and Prevention	592,250	72,121	616	164,921	195,900	98,238	28,207	32,249
Food and Drug Administration	589,144	455,159	0	13,095	71,424	41,688	2,219	5,560
Health Resources and Services Administration	29,521	1,837	0	0	26,620	1,063	0	0
National Institutes of Health	19,550,976	3,053,191	349,560	1,203,839	11,530,902	3,227,114	58,376	127,995
Office of the Secretary of Health and Human Services	17,386	3,100	0	5,286	2,399	6,601	0	0
Office of the Assistant Secretary for Planning and Evaluation	17,386	3,100	0	5,286	2,399	6,601	0	0
Department of Homeland Security	187,372	72,068	19,237	82,470	6,101	4,634	0	2,862
Coast Guard	2,995	0	0	2,984	0	0	0	*
Countering Weapons of Mass Destruction Office	15,266	3,571	2,519	5,915	785	0	0	2,475
Cybersecurity and Infrastructure Security Agency	9,032	2,918	2,286	*	0	3,828	0	0
Science and Technology Directorate	159,079	64,578	14,432	73,570	5,316	807	0	376
Transportation Security Administration	1,000	1,000	0	0	0	0	0	0
Department of the Interior	668,110	576,265	408	15,799	50,928	5,992	17,468	1,250
Bureau of Indian Affairs	5,000	0	0	0	0	0	5,000	0
Bureau of Land Management	9,143	3,878	0	180	3,166	707	1,176	*
Bureau of Ocean Energy Management	62,582	42,563	0	6,939	7,421	2,201	2,691	767
Bureau of Reclamation	18,000	13,478	0	3,152	1,147	0	150	73
Bureau of Safety and Environmental Enforcement	18,918	9,831	408	4,624	3,732	315	0	*
Fish and Wildlife Service	32,650	32,650	0	0	0	0	0	0

TABLE 31

Federal obligations for applied research, by agency and performer: FY 2021

(Dollars in thousands)

Agency	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
Geological Survey	494,595	457,153	0	904	25,071	2,650	8,451	366
National Park Service	27,222	16,712	0	0	10,391	119	0	0
Department of Justice	70,562	5,450	0	6,464	32,037	26,203	409	0
Bureau of Prisons	*	*	0	0	0	0	0	0
Federal Bureau of Investigation	3,698	0	0	2,328	1,370	0	0	0
Office of Justice Programs	66,863	5,448	0	4,136	30,667	26,203	409	0
Department of Labor	3,493	2,596	0	897	0	0	0	0
Employee Benefits Security Administration	1,301	404	0	897	0	0	0	0
Occupational Safety and Health Administration	2,192	2,192	0	0	0	0	0	0
Department of State	40,000	40,000	0	0	0	0	0	0
Department of Transportation	820,890	147,531	6,553	275,241	156,857	52,396	179,735	2,578
Federal Aviation Administration	266,866	65,409	3,729	109,064	66,304	20,023	0	2,337
Federal Highway Administration	373,484	53,926	1,654	91,803	71,445	12,162	142,495	0
Federal Motor Carrier Safety Administration	11,451	2,990	975	3,214	4,141	131	0	0
Federal Railroad Administration	35,039	9,178	195	9,303	5,225	10,648	249	241
Federal Transit Administration	42,045	0	0	0	0	5,055	36,990	0
National Highway Traffic Safety Administration	65,559	0	0	58,594	6,549	416	0	0
Office of the Secretary of Transportation	11,714	11,498	0	216	0	0	0	0
Pipeline and Hazardous Materials Safety Administration	14,733	4,530	0	3,048	3,193	3,962	0	0
Department of the Treasury	41,289	2,518	5,800	19,280	200	0	0	13,491
Bureau of Engraving and Printing	41,271	2,500	5,800	19,280	200	0	0	13,491
Mint	*	*	0	0	0	0	0	0
Department of Veterans Affairs	936,176	936,176	0	0	0	0	0	0
Other agencies								
Administrative Office of the U.S. Courts	4,362	0	4,362	0	0	0	0	0
Agency for Global Media	4,597	0	0	4,597	0	0	0	0
Agency for International Development	51,211	5,985	0	12,961	2,975	15,840	0	13,450
Appalachian Regional Commission	650	0	0	372	113	164	0	0
Consumer Product Safety Commission	391	241	0	0	150	0	0	0
Environmental Protection Agency	403,334	205,004	109	143,550	40,338	14,333	0	0
Federal Trade Commission	8,094	8,094	0	0	0	0	0	0

TABLE 31

Federal obligations for applied research, by agency and performer: FY 2021

(Dollars in thousands)

Agency	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
Library of Congress	550	550	0	0	0	0	0	0
National Aeronautics and Space Administration	2,697,919	535,070	152,496	1,211,869	176,105	609,282	313	12,784
National Science Foundation	934,101	290	0	207,544	651,375	70,950	3,545	398
Nuclear Regulatory Commission	76,714	36,207	24,451	6,694	6,257	689	0	2,416
Patient-Centered Outcomes Research Trust Fund	460,331	0	0	0	0	460,331	0	0
Postal Service	15,435	0	0	15,435	0	0	0	0
Social Security Administration	105,392	67,286	0	28,327	6,124	3,464	0	190
Tennessee Valley Authority	9,179	0	0	5,232	0	3,947	0	0

* = amount greater than \$0 but less than \$50,000.

FFRDC = federally funded research and development center.

^a Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, and actual federal performance.^b Higher education includes both public and private institutions as well as University Affiliated Research Centers.**Note(s):**

Because of rounding, detail may not add to total. As of volume 71 (FYs 2021–22), FFRDCs are classified as intramural R&D performers, whereas they were extramural in previous volumes; therefore, data are not directly comparable across volumes. Past years in the trend tables have been adjusted to reflect the current classification of FFRDCs. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. FY 2021 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). See technical table A-2 for additional notes associated with the agencies listed in this table.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2021–22.